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	Application No.	Applicant(s)
Notice of Allowability	10/000 210	MUSTAL
	10/690,318 Examiner	MUI ET AL. Art Unit
	Eric B. Chen	1765
The MAILING DATE of this communication appeal claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT R of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in or other appropriate commu IGHTS. This application is s	n this application. If not included unication will be mailed in due course. THIS
1. 🔀 This communication is responsive to 15 February 2006.		
2. \boxtimes The allowed claim(s) is/are <u>8-13,15-23,25-27,31 and 32</u> .		
3. Acknowledgment is made of a claim for foreign priority unal All b) Some* c) None of the: 1. Certified copies of the priority documents have		or (f).
Certified copies of the priority documents have	• •	
3. Copies of the certified copies of the priority do	cuments have been received	d in this national stage application from the
International Bureau (PCT Rule 17.2(a)).		
* Certified copies not received:		
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		a reply complying with the requirements
4. A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give		
5. CORRECTED DRAWINGS (as "replacement sheets") must be submitted.		
(a) 🔲 including changes required by the Notice of Draftspers	son's Patent Drawing Review	v (PTO-948) attached
1) 🗌 hereto or 2) 🗍 to Paper No./Mail Date		
(b) including changes required by the attached Examiner' Paper No./Mail Date	s Amendment / Comment or	r in the Office action of
Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in t		
6. DEPOSIT OF and/or INFORMATION about the depo attached Examiner's comment regarding REQUIREMENT		
	·	
Attachment(s) 1. Notice of References Cited (PTO-892)	5 🗍 Notice of In	formal Patent Application (PTO-152)
Notice of Netlerences Cited (PTO-032) Notice of Draftperson's Patent Drawing Review (PTO-948)		ummary (PTO-413),
	Paper No.	/Mail Date
 Information Disclosure Statements (PTO-1449 or PTO/SB/0 Paper No./Mail Date 	08), 7. <u>□</u> Examiner's	Amendment/Comment
4. Examiner's Comment Regarding Requirement for Deposit of Biological Material	8. 🗵 Examiner's	Statement of Reasons for Allowance
	9. 🗌 Other	
	SU	NADINE G. NORTON PERVISORY PATENT EXAMINER
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REASONS FOR ALLOWANCE

1. Claims 8-13, 15-23, 25-27, 31 and 32 are allowed.

- 2. The following is an examiner's statement of reasons for allowance for claims 8 and 16: the prior art fails to teach or suggest measuring a thickness of post-etch residue and removing at least a portion of the post-etch residue formed on sidewalls of the etched structures based on the thickness of the post-etch residue. The closest prior art, Tao I (U.S. Patent No. 6,620,631), teaches measuring sidewall polymer depositions prior to trimming of the photoresist. However, there is no motivation or suggestion of measuring a thickness of post-etch reside after trimming the photoresist mask and removing at least a portion of the post-etch residue formed on sidewalls of the etched structures based on the thickness of the post-etch residue, as in the context of claims 8 and 16.
- 3. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Response to Arguments

4. The provision double patenting rejection of claims 8-11 and 16-19 under the judicially created doctrine of obviousness-type double patenting as being unpatentable over claims 1, 7-8, 10, 12, and 19-20 of copending Application No. 10/666,317, Mui et al. (Applicants' Claims, filed Dec. 12, 2005), in view of Tao I, in further view of Tao II has

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been withdrawn. In view of Applicants' amendments to claims 8 and 16, the claims no longer conflict.

5. Applicant's arguments (Applicants' Remarks, pages 7-8) filed Feb. 15, 2006, with respect to the rejection of claims 8 and 16 under 35 U.S.C. 103(a) as being unpatentable over Tao I, in view of Tao II have been fully considered and are persuasive. The Tao I and Tao II references do not teach of suggest "measuring a thickness of post-etch residue" and "removing at least a portion of the post-etch residue formed on sidewalls of the etched structures based on the thickness of the post-etch residue." The rejection of claims 8-13, 15-23, and 25-27 has been withdrawn.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Eric B. Chen whose telephone number is (571) 272-2947. The examiner can normally be reached on Monday through Friday, 8AM to 4:30PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nadine G. Norton can be reached on (571) 272-1465. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

EBC

March 31, 2006

NADINE G. NORTON SI IPERVISORY PATENT EXAMINER